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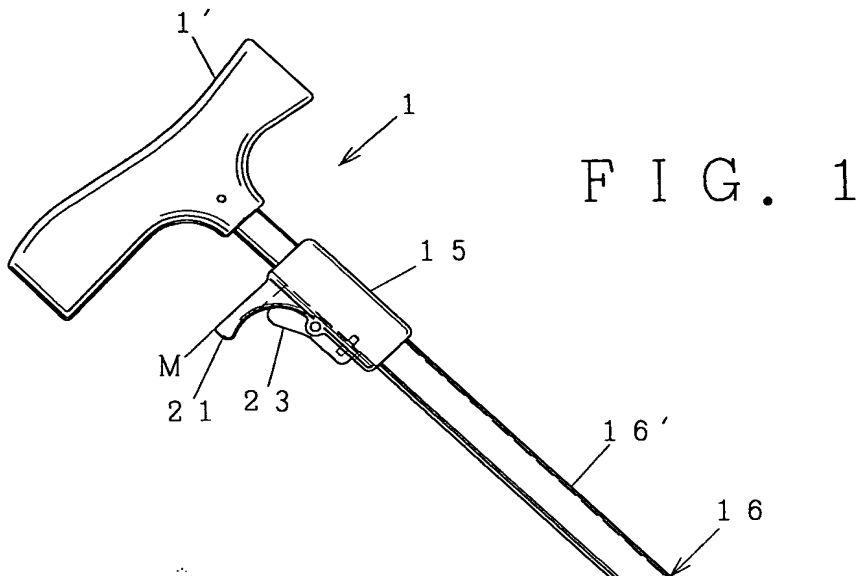
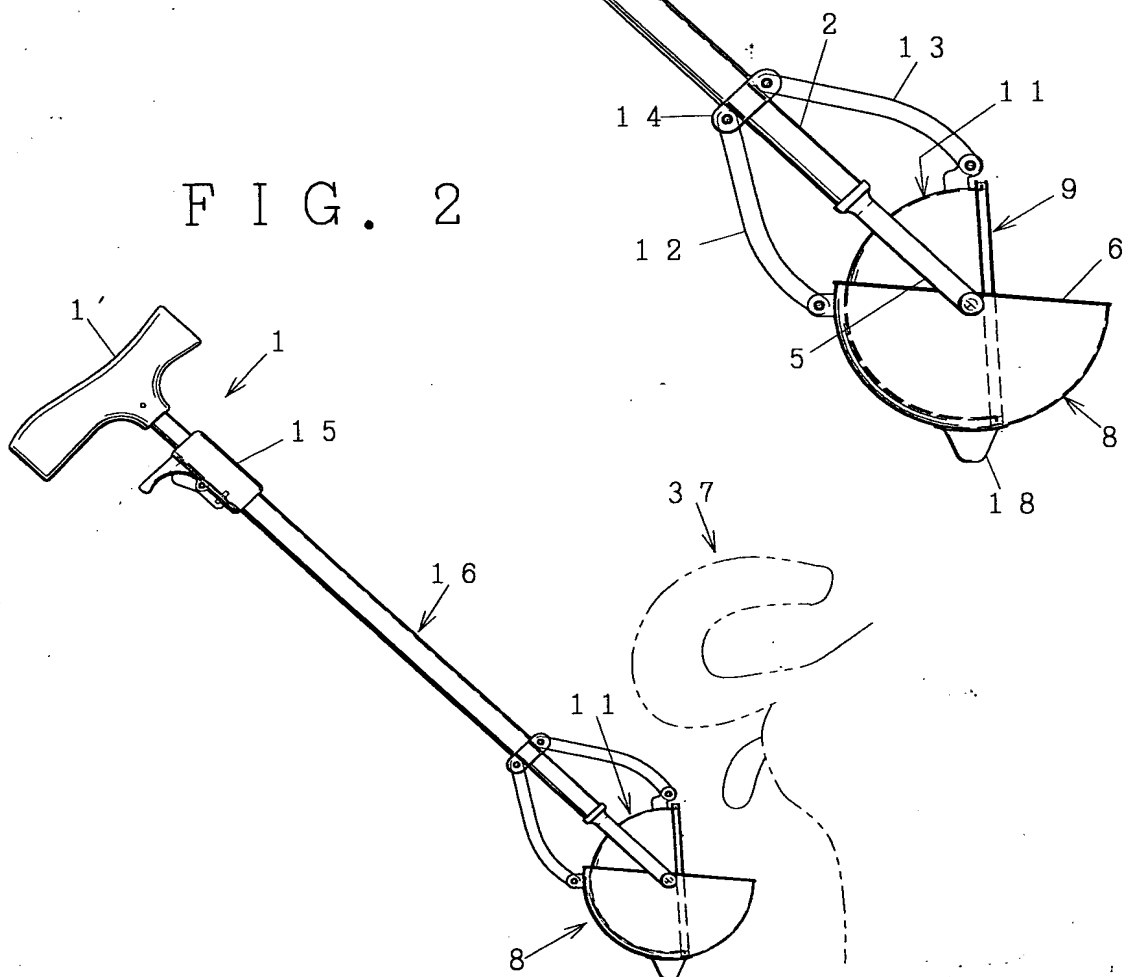
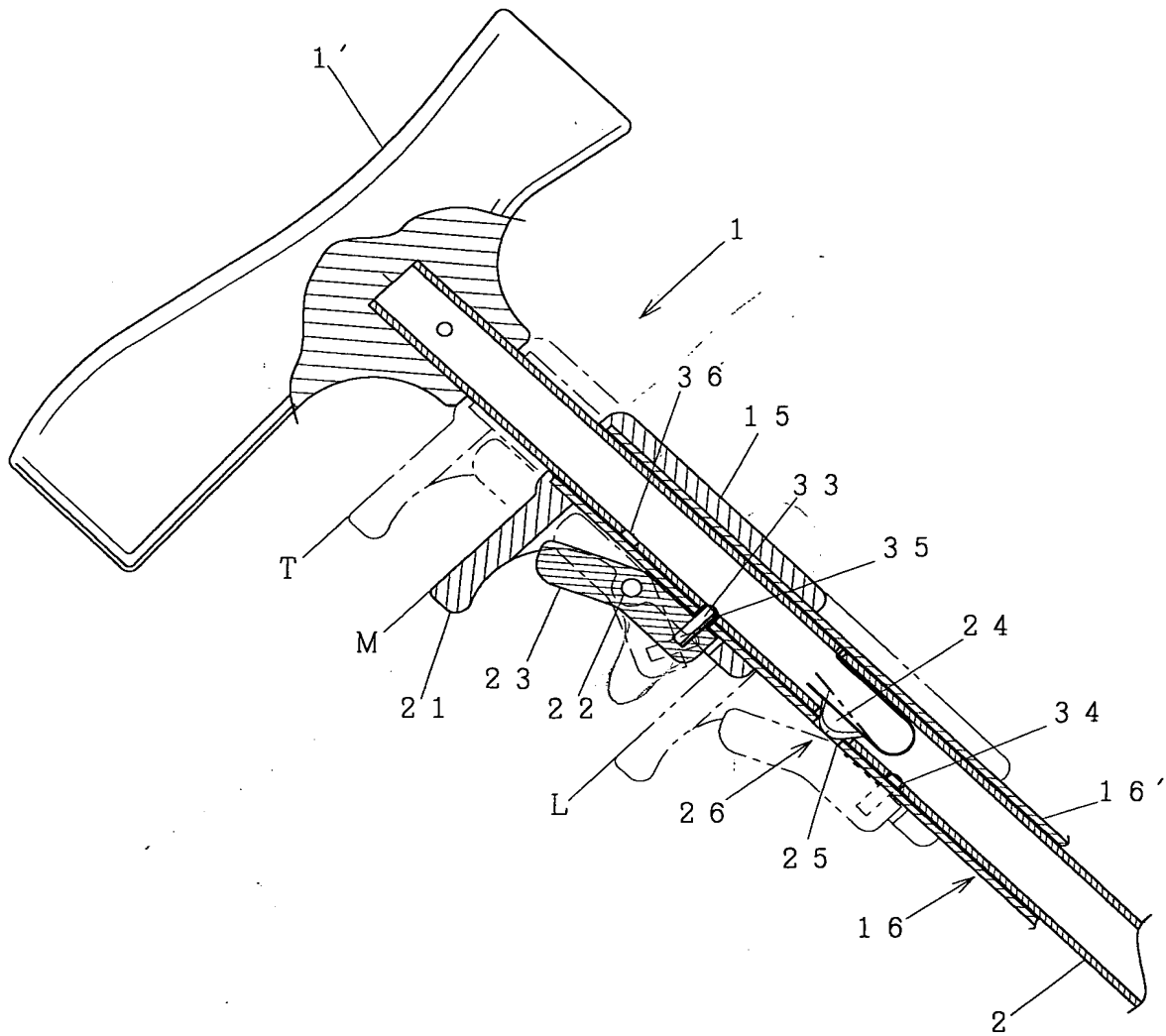


FIG. 2



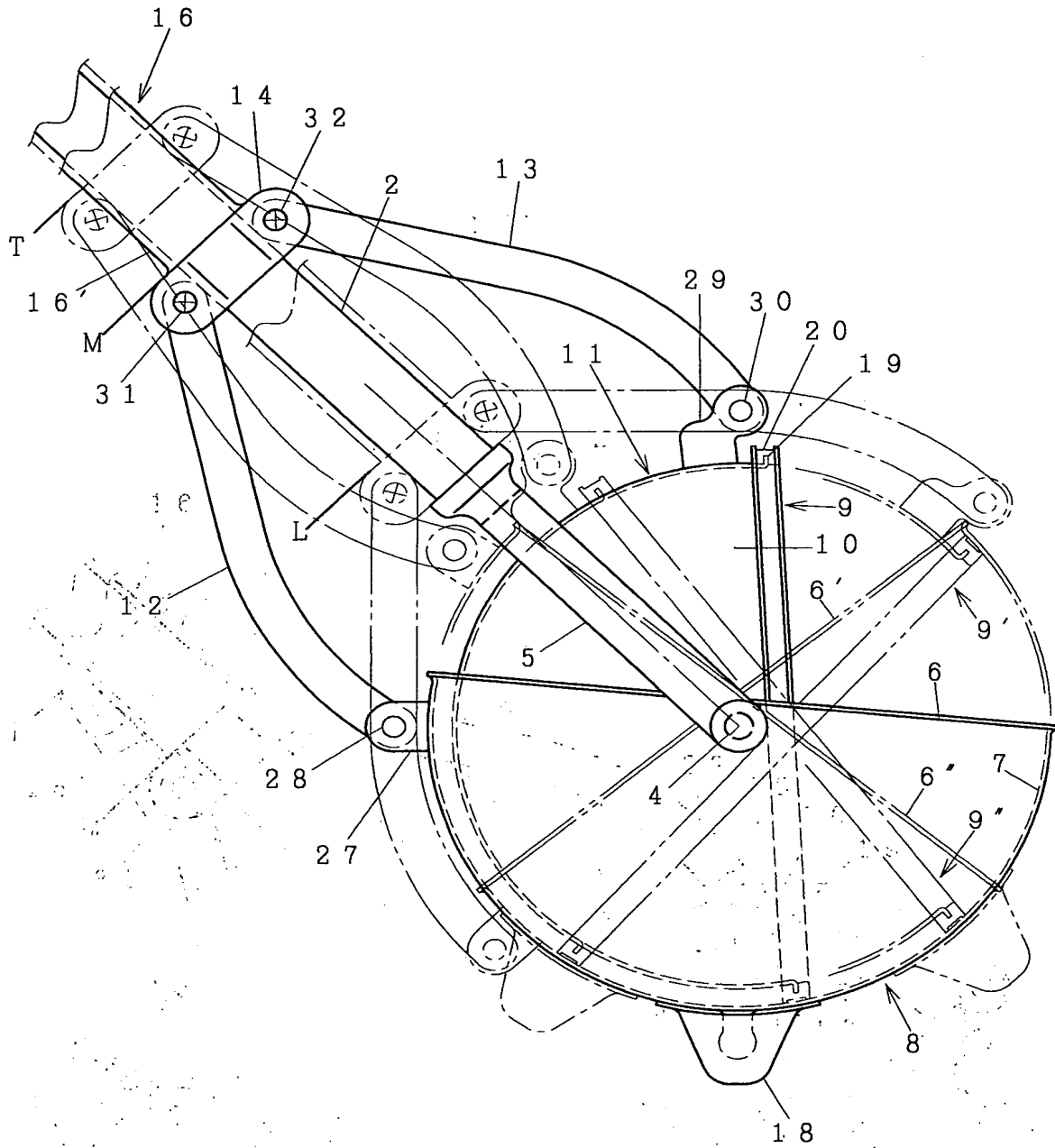
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F I G . 3



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FIG. 4



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FIG. 5

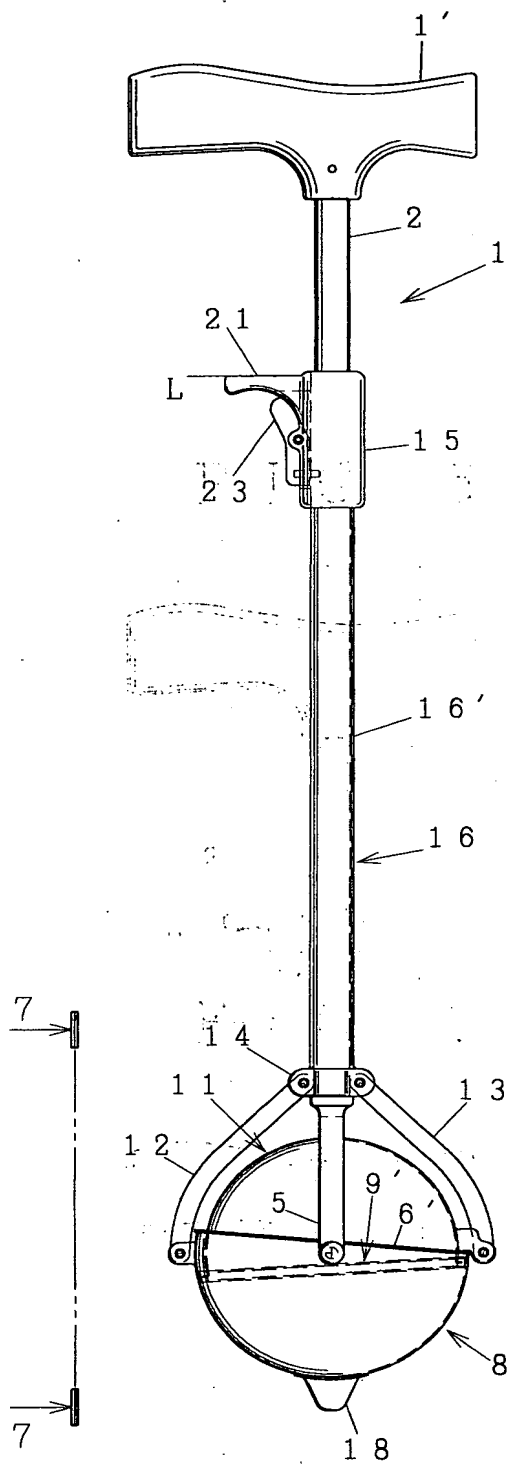


FIG. 6

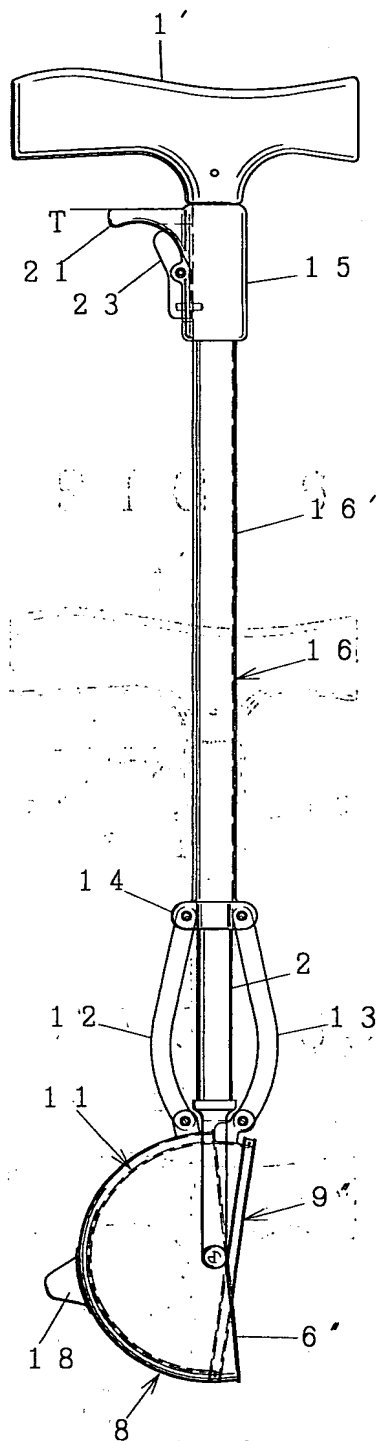
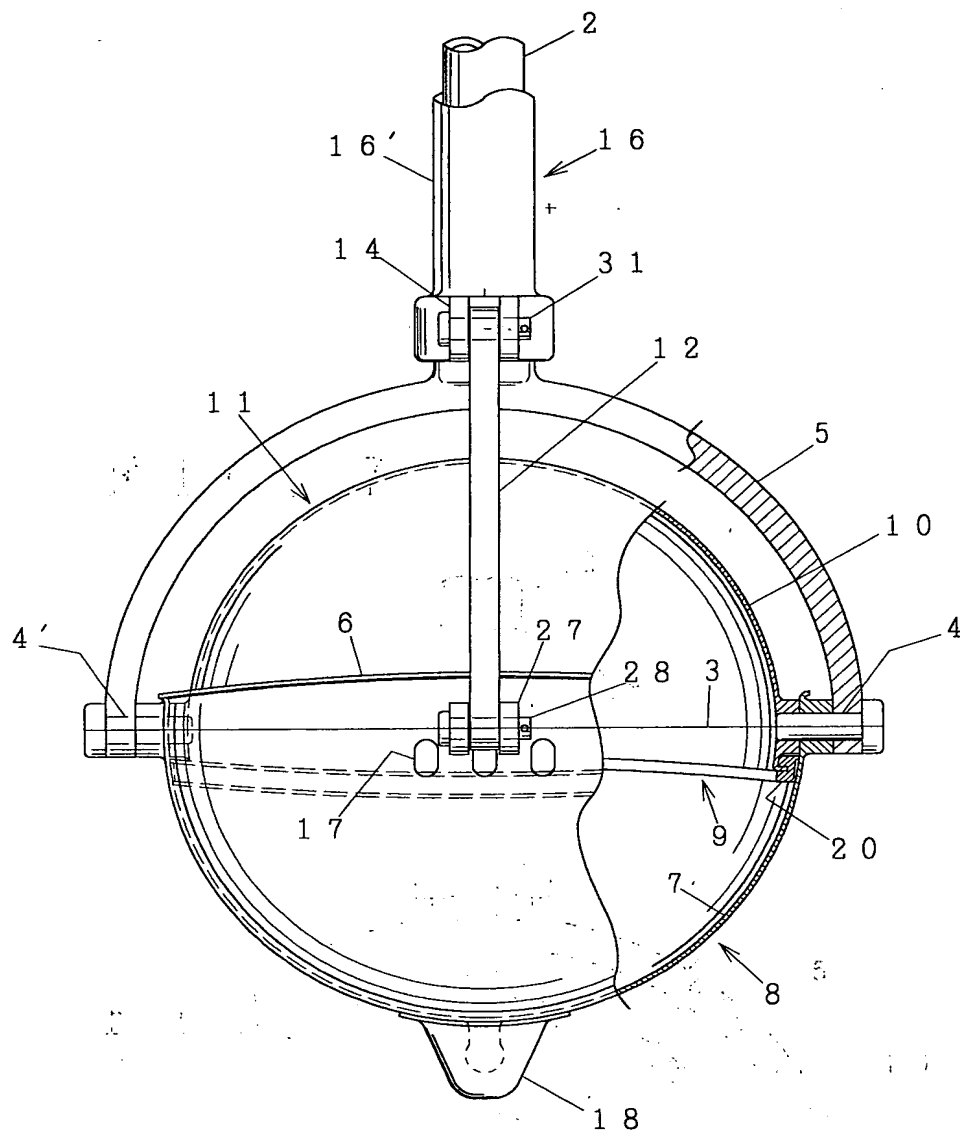


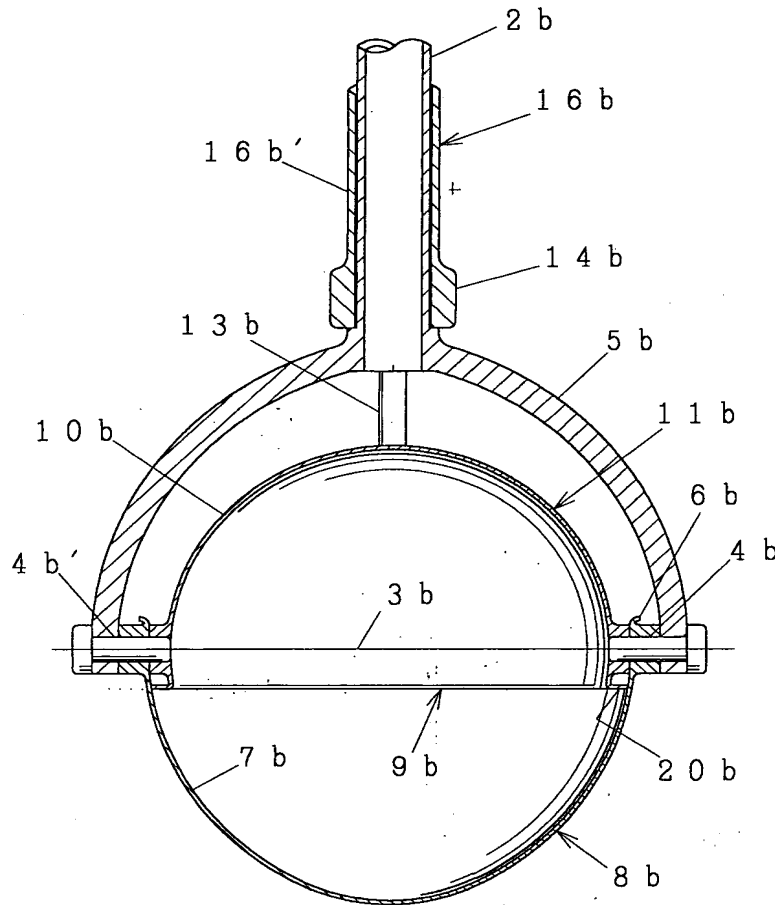
FIG. 7



This diagram shows a cross-sectional view of a spherical valve assembly. A vertical stem (2 a) passes through the top of a spherical body (7 a). The stem has a central bore (16 a) and a shoulder (14 a). A seal (13 a) is located where the stem meets the sphere. The sphere has an outer shell (5 a) and an inner lining (11 a). A horizontal shaft (3 a) passes through the center of the sphere. The shaft has seals (4 a, 4 a') at its ends. The sphere is mounted on a base (6 a) which has a flange (10 a) and a seal (16 a'). The sphere is also connected to a horizontal pipe (8 a) via a flange (9 a) and a seal (20 a).

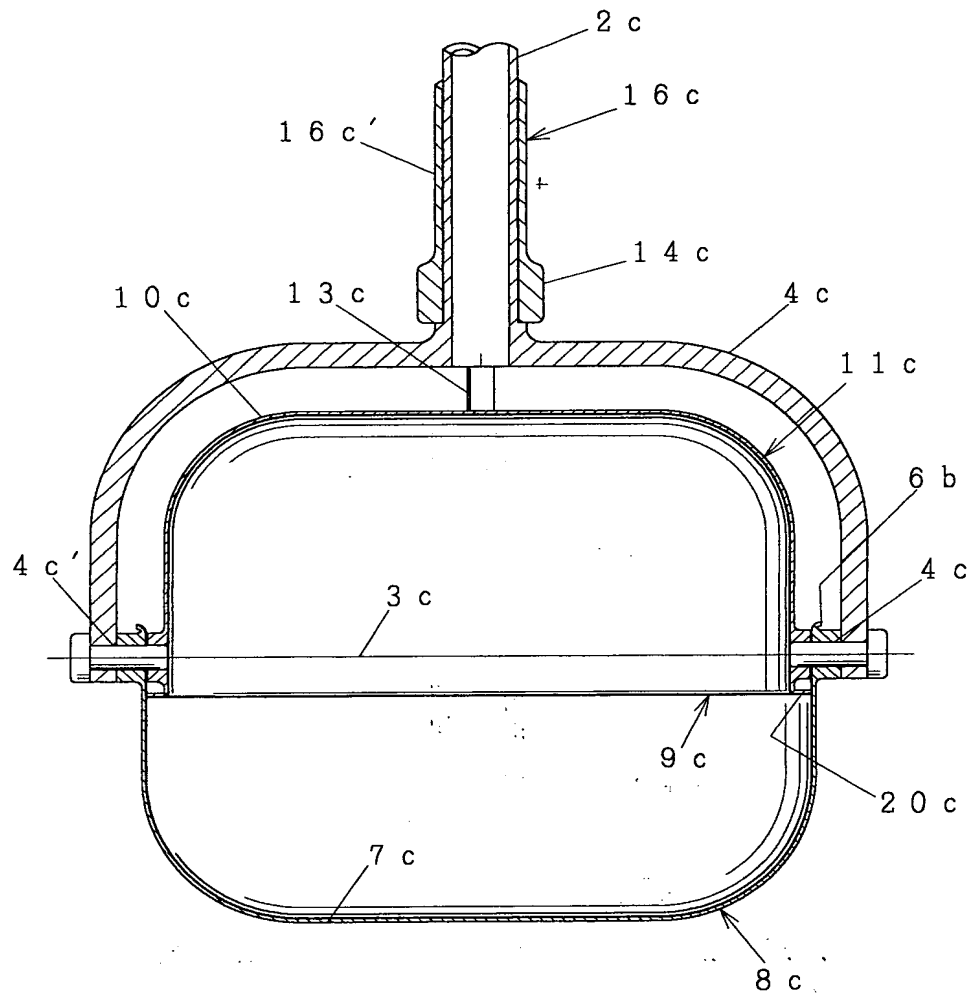
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FIG. 9



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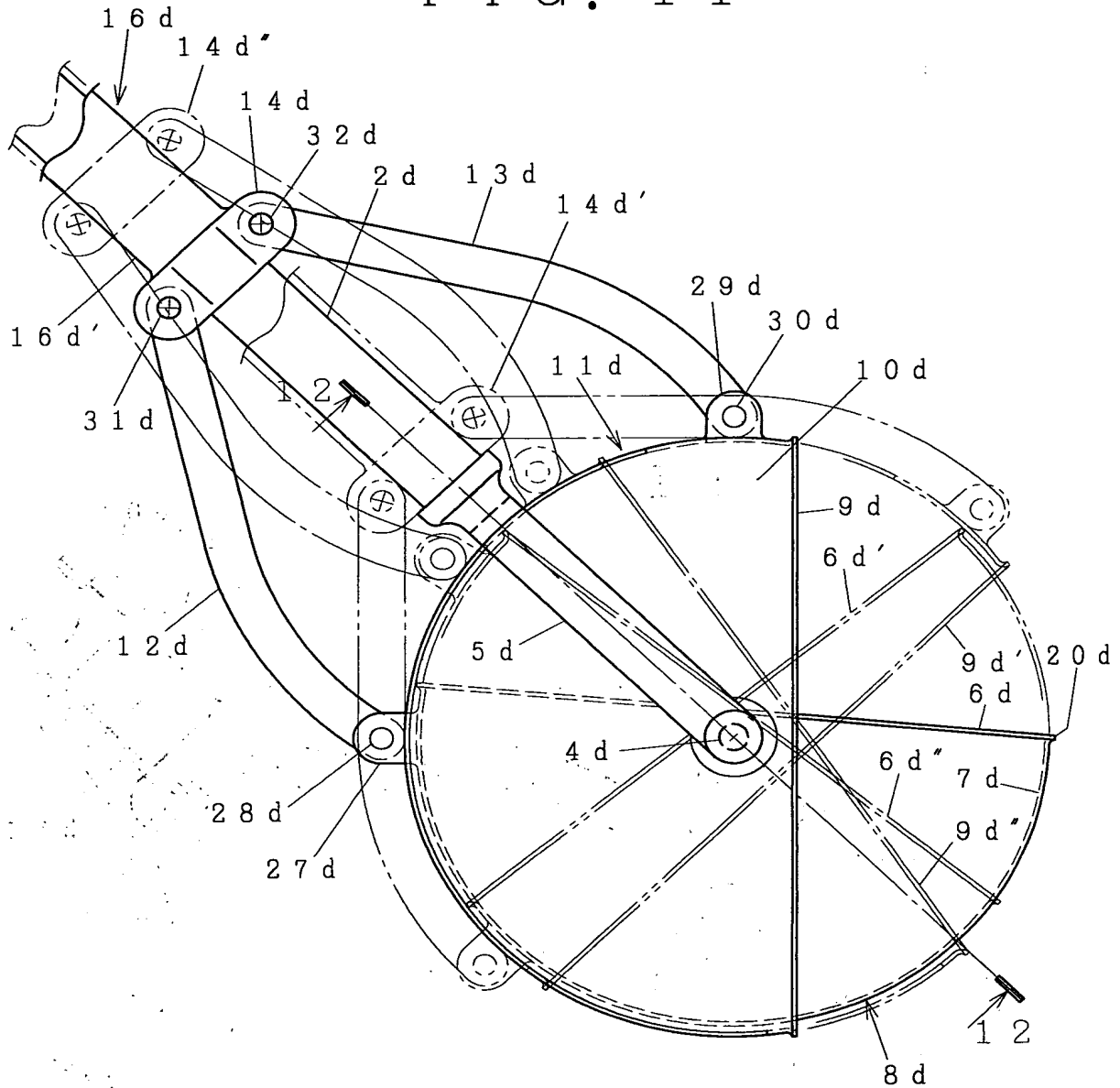
FIG. 10





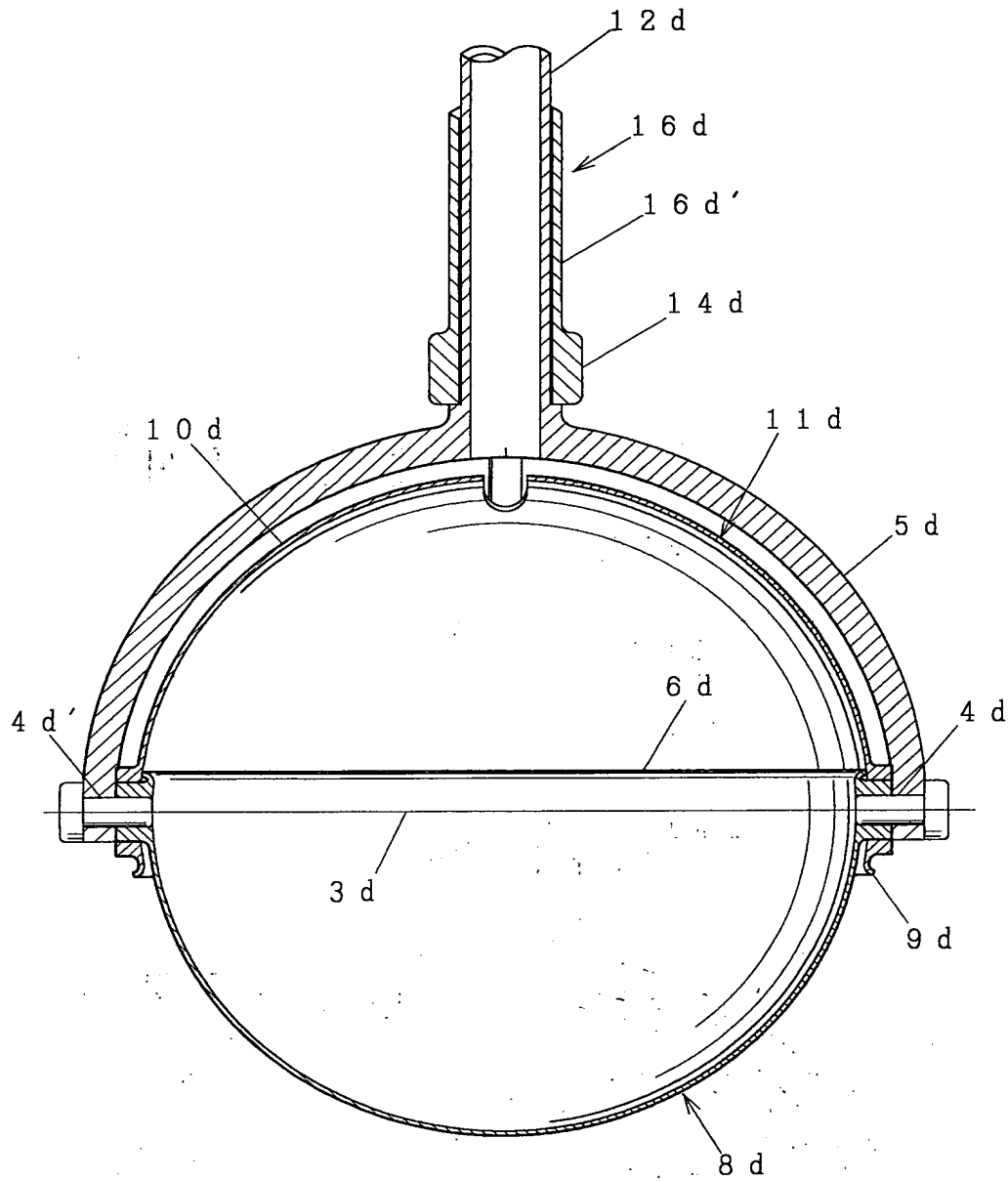
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FIG. 11



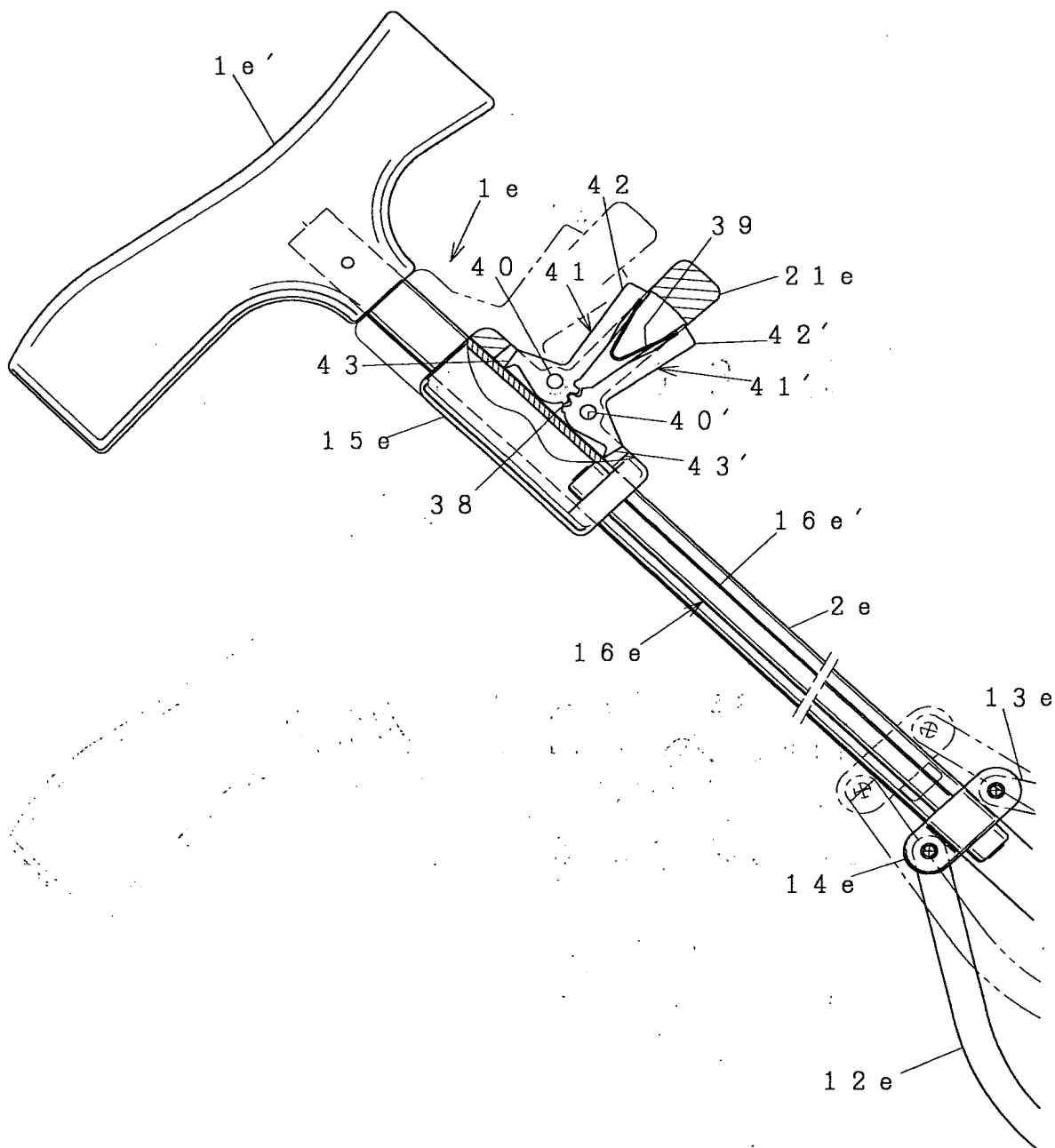
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FIG. 12



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FIG. 13



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FIG. 14

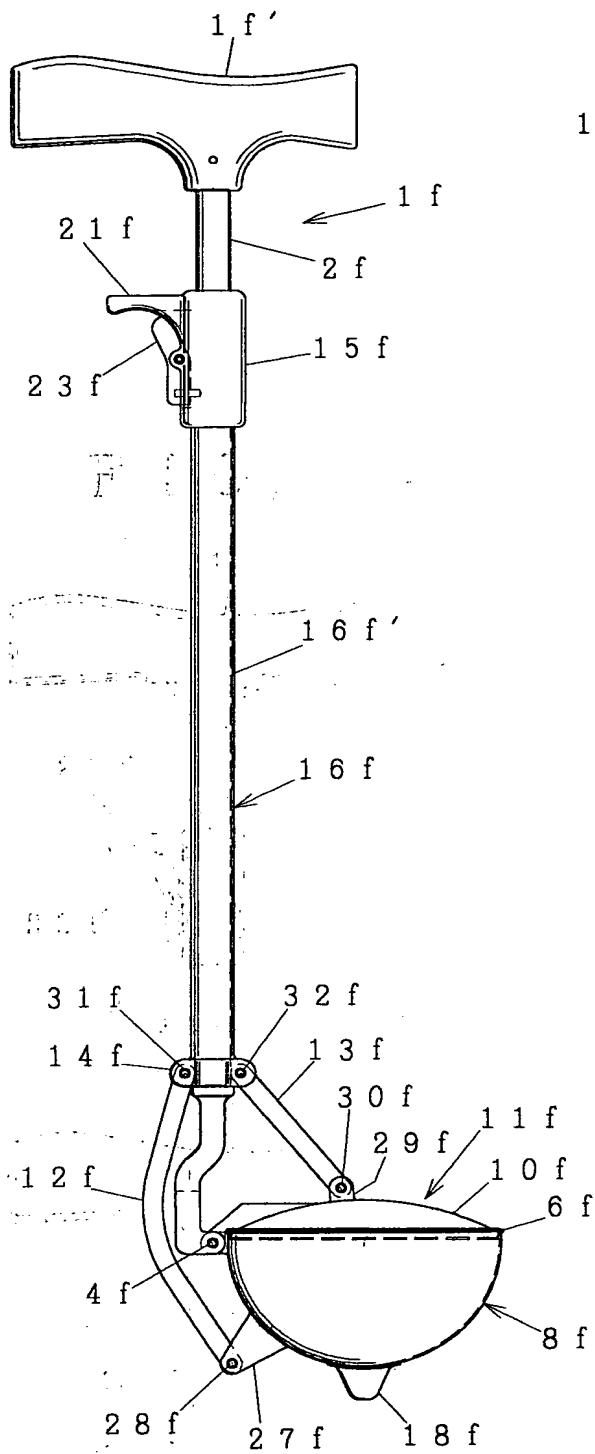
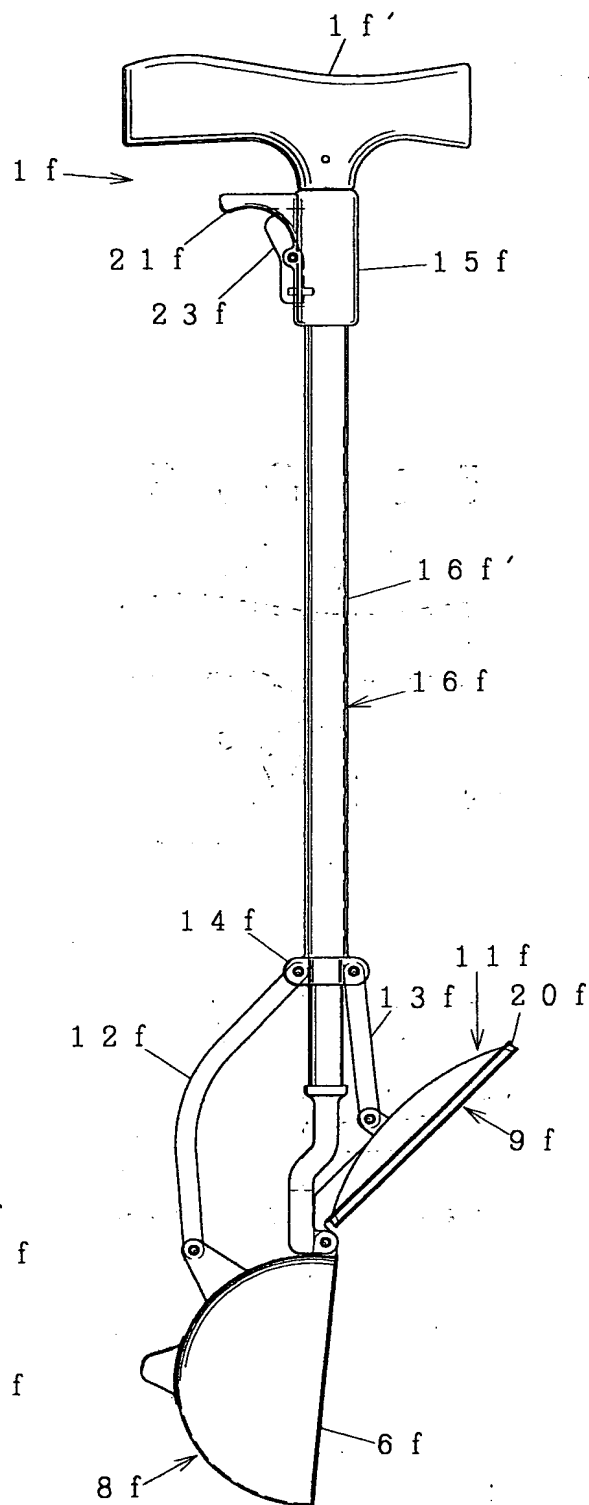
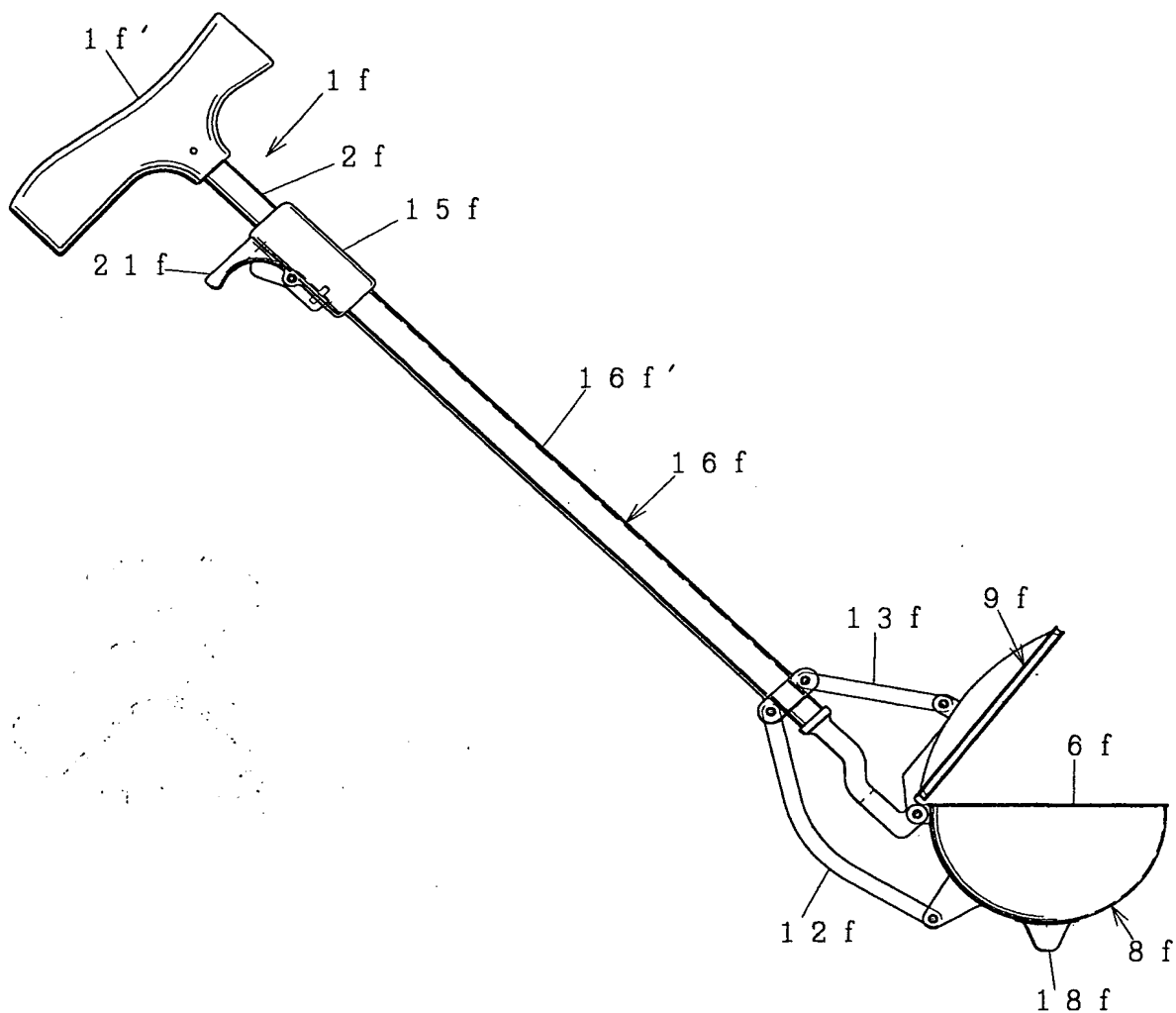


FIG. 15



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FIG. 16



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FIG. 17

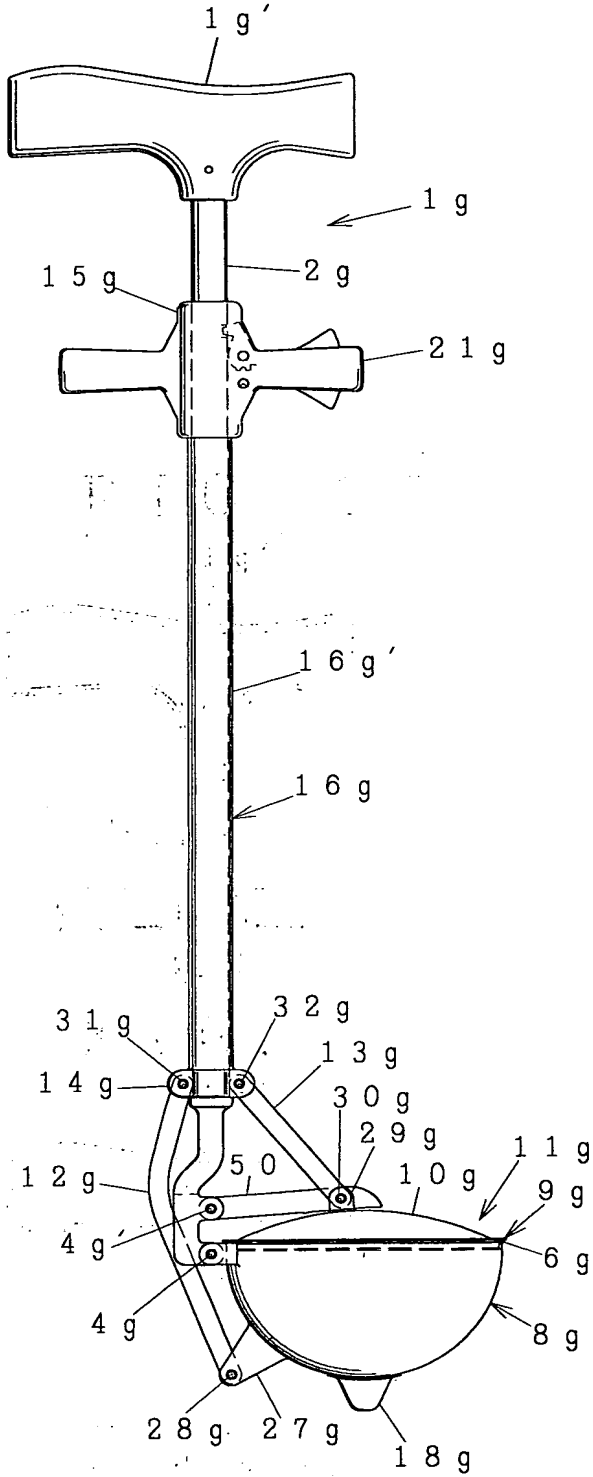
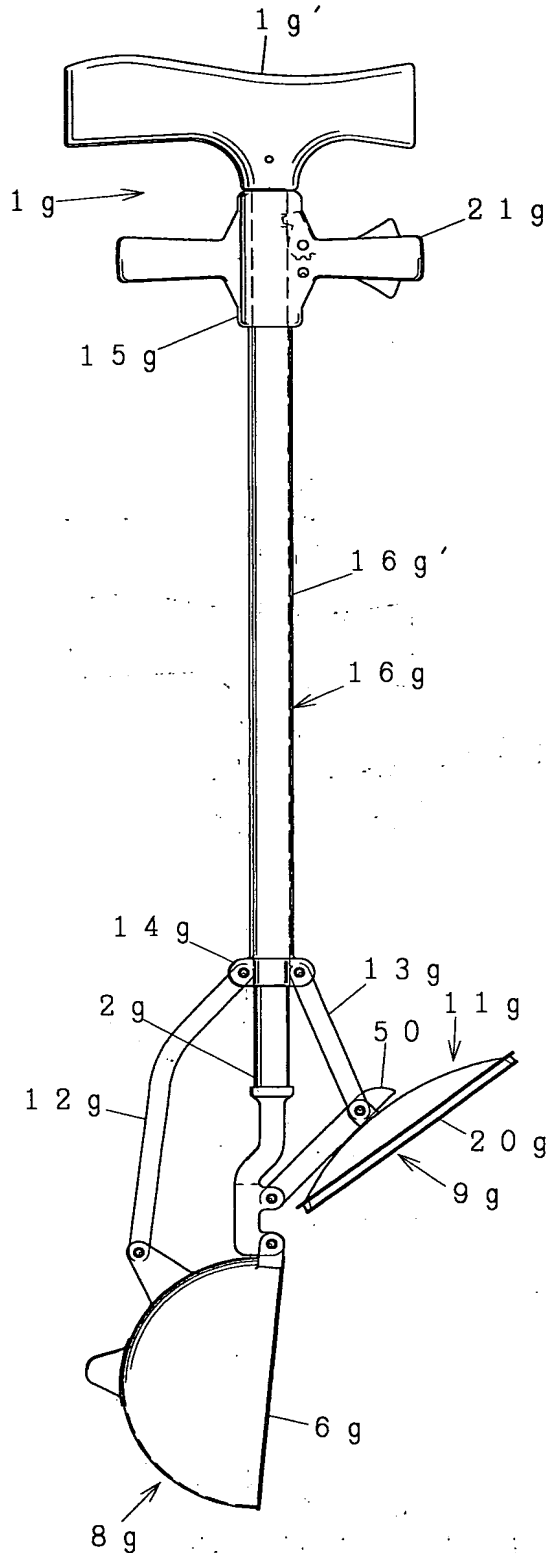


FIG. 18



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FIG. 19

